

# UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE 08/31/00	FIRST NAMED IN	IVENTOR		ATTORNEY DOCKET NO.	
09/652,998		DURCAN		D	98-1068.06	
- CHARLES BRANTLEY MICRON TECHNOLOGY INC 8000 S FEDERAL WAY		MM91/0924	乛	EXAMINER		
				MAI,A		
				ART UNIT	PAPER NUMBER	
MAIL STOP 525				2814		
BOISE ID 837	/ 1 G			DATE MAILED	09/24/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

- <i>'</i>		Application I	No.	$\bigcap$	Applicant(s)					
,		09/652,998		DURCAN ET AL.						
	Office Action Summary	Examin r		Art Unit						
		Anh D. Mai								
Period fo	Th MAILING DATE of this communication app r Reply	ars on th co	ver sheet v	vith the co	orrespond nce ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status										
1)	Responsive to communication(s) filed on 31 A	<u> Nugust 2000</u> .								
2a) 🗌	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is noi	n-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.										
Dispositi	on of Claims									
4) 🖾	4)⊠ Claim(s) 13 and 14 is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.										
5) Claim(s) is/are allowed.										
6)⊠ Claim(s) <u>13 and 14</u> is/are rejected.										
7)	7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.										
Application	on Papers									
9) The specification is objected to by the Examiner.										
10)⊠ The drawing(s) filed on <u>31 August 2000</u> is/are: a)⊠ accepted or b)⊡ objected to <b>by the Examine</b> r.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action.										
12)☐ The oath or declaration is objected to by the Examiner.										
Priority under 35 U.S.C. §§ 119 and 120										
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).										
a) All b) Some * c) None of:										
1. Certified copies of the priority documents have been received.										
	2. Certified copies of the priority documents have been received in Application No									
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>										
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
اردا Attachment		o priority unde	1 33 0.5.0	. 33 120	anu/or IZT.					
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3.4</u>	4) [ 5) [ 4,5,6 6) [			(PTO-413) Paper No( atent Application (PTo					
	, , , , , , , , , , , , , , , , , , , ,	//								



Art Unit: 2814

#### **DETAILED ACTION**

## Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 13 and 14 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Chen (U.S. Patent No. 5,885,866).

Chen teaches an array of capacitors as claimed including:

- a first bottom capacitor plate (40A);
- a second bottom capacitor plate (40A);
- a third bottom capacitor plate (40A);
- a contact (31) between the first bottom capacitor plate and the second bottom capacitor plate;
  - a trench between the second bottom capacitor plate and the third bottom capacitor plate;
  - a common top capacitor plate (48) over the first bottom capacitor plate, the second





Art Unit: 2814

bottom capacitor plate, and the third bottom capacitor plate, wherein the top capacitor plate (48) extends toward the contact (31) at a first level within the array and is separate from the contact, and wherein the top capacitor plate lines a side of the trench and further lines a bottom of the trench at a second level within the array; and

a dielectric (46) between the top capacitor plate (48) and the first, second, and third bottom capacitor plates (40A). (See Fig. 11).

With respect to claim 14, the top capacitor plate (48) of Chen extends toward a top of the contact.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh D. Mai whose telephone number is (703) 305-0575. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

A.M September 14, 2001

OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800